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IL 1RA Horse

Catalog #:CYPS-017

For research use only.

Description: Recombinant Horse Interleukin-1 Receptor Antagonist produced in E.coli cells is a single, non-glycosylated, polypeptide chain containing 152 amino acids and having a molecular mass of 17.4kDa. The IL-1RA is purified by proprietary chromatographic techniques.

Synonyms: Interleukin-1 receptor antagonist protein, IL-1RN, IL-1ra, IRAP, IL1 inhibitor, IL1RN, IL1RA.

Source: Escherichia Coli.

Physical Appearance: Sterile Filtered White lyophilized (freeze-dried) powder.

Amino Acid Sequence:HPLGKRPCKM QAFRIWDVNQ KTFYMRNNQL VAGYLQESNT KLQEKIDVVP IEPDALFLGL HGRKLCLACV KSGDEIRFQL EAVNITDLSK NKEENKRFTF IRSNSGPTTS FESAACPGWF LCTAQEADRP VSLTNKPKES FMVTKFYLQE DQ.

Purity: Greater than 95.0% as determined by:(a) Analysis by RP-HPLC.(b) Analysis by SDS-PAGE.

Formulation:
The IL-1RA was lyophilized from a 0.2

Stability:
Lyophilized IL-1RA althoμgh stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution IL-1RA should be stored at 4°C between 2-7 days and for future use below -18°C.For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).Please prevent freeze-thaw cycles.

Usage:
NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drμgs, agricultural or pesticidal products, food additives or household chemicals.

Solubility:
It is recommended to reconstitute the lyophilized IL-1RA in sterile water not less than 100

Introduction:
Interleukin-1 ra is a member of the interleukin 1 cytokine family. This protein inhibits the activities of interleukin 1, alpha (IL1A) and interleukin 1, beta (IL1B), and modulates a variety of interleukin 1 related immune and inflammatory responses. This gene and five other closely related cytokine genes form a gene cluster spanning approximately 400 kb on chromosome 2. A polymorphism of this gene is reported to be associated with increased risk of osteoporotic fractures and gastric cancer. Four alternatively spliced transcript variants encoding distinct isoforms have been reported.

Biological Activity:
The ED50 as determined by inhibiting IL-1-dependent proliferation of murine D10.G4.1 helper T cells is less than 3.0 g/ml, corresponding to a specific activity of > 333 IU/mg in the presence of 50 pg/ml rHuIL-1.

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